TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-22-02** **Date: 26-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.
Agency	:	Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/189/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-17
Sample ID No	:	2017-04-22-02/01
Sample Type	:	Zuari 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-04-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.1	_
2	Finess by Air permeablity method (m^2/kg, Min)	285.7	225m^2/kg, Min
3	Density (gm/cc)	3.18	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

Ward No 5
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-22-02** **Date: 22-05-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.
Agency	:	Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/189/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-17
Sample ID No	:	2017-04-22-02/01
Sample Type	:	Zuari 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-04-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Harshitha

AE ward no 5
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19.05.17

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-22-02** **Date: 26-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.
Agency	:	Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/189/2015-16
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-04-17
Sample ID No	:	2017-04-22-02/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	22-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1138	1138	7.6	92.4	90-100
3	20 mm	6384	7522	50.1	49.9	30-70
4	10 mm	5386	12908	86.1	13.9	10-35
5	4.75 mm	1748	14656	97.7	2.3	0-5
6	Pan	344	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-22-02** **Date: 26-04-2017**

Sample ID No : 2017-04-22-02/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.21**	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-04-22-02** **Date: 26-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.
Agency	:	Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/189/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-04-17
Sample ID No	:	2017-04-22-02/03
Sample Type	:	Fine Aggregates
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-04-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	59	59	5.9	94.1	90-100	90-100	90-100	95-100
3	2.36 mm	176	235	23.5	76.5	60-95	75-100	85-100	95-100
4	1.18 mm	147	382	38.2	61.8	30-70	55-90	75-100	90-100
5	600 micron	162	544	54.4	45.6	15-34	35-59	60-79	80-100
6	300 micron	327	871	87.1	12.9	5-20	8-30	12-40	15-50
7	150 micron	68	939	93.9	6.1	0-10	0-10	0-10	0-15
8	Pan	61	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-22-02** **Date: 26-04-17**

Sample ID No : 2017-04-22-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.89	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	5.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-11-01**	**Date: 16-05-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.	
Agency	:	Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.	
Customer's Reference	:	EE/BTP/BBMP/E-PMT/189/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	11-05-17	
Sample ID No	:	2017-05-11-01/01	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	11/05/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.04	100.51	1.138	4422	101.6	23.0	21.4	26.7
2	Cover Slab-2	75.18	100.53	1.124	4438	95.1	21.4	19.9	24.9
3	Cover Slab-3	75.13	100.49	1.120	4432	98.2	22.2	20.6	25.8

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Page 1/1
****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-30-02** **Date: 01-07-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.

Agency : Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.

Customer's Reference : EE/BTP/BBMP/E-PMT/189/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-06-17

Sample ID No : 2017-06-30-02/03

Customer ID : Road Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete	M20	24/06/2017	01/07/2017	149.28 X 148.91 X 151.37	22229	8.274	375.7	16.9	17.0
2	Road Concrete	M20	24/06/2017	01/07/2017	150.39 X 151.63 X 150.38	22804	8.189	376.3	16.5	
3	Road Concrete	M20	24/06/2017	01/07/2017	150.32 X 151.08 X 150.72	22710	8.210	402.0	17.7	

Note:
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-30-02** **Date: 22-07-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.

Agency : Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.

Customer's Reference : EE/BTP/BBMP/E-PMT/189/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-06-17

Sample ID No : 2017-06-30-02/04

Customer ID : Road Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete	M20	24/06/2017	22/07/2017	150.64 X 151.22 X 149.37	22780	8.258	533.0	23.4	23.0
2	Road Concrete	M20	24/06/2017	22/07/2017	151.47 X 151.79 X 150.04	22992	8.225	515.0	22.4	
3	Road Concrete	M20	24/06/2017	22/07/2017	150.15 X 151.92 X 150.39	22811	8.188	526.9	23.1	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-30-02** **Date: 02-07-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.

Agency : Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.

Customer's Reference : EE/BTP/BBMP/E-PMT/189/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-06-17

Sample ID No : 2017-06-30-02/01

Customer ID : Road Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete	M20	25/06/2017	02/07/2017	150.24 X 151.28 X 150.38	22728	8.269	381.8	16.8	17.2
2	Road Concrete	M20	25/06/2017	02/07/2017	149.86 X 148.79 X 151.64	22298	8.324	385.7	17.3	
3	Road Concrete	M20	25/06/2017	02/07/2017	151.48 X 149.87 X 149.43	22702	8.278	395.0	17.4	

Note:
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-30-02** **Date: 23-07-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Sriram Pura connecting road to Telecom Layout in Ward no.05 Byatarayanapura Sub Division.

Agency : Sri.N. Venu, #1219, 'A' block, 4th cross, 5th main, Shankaranagara, Bangalore-92.

Customer's Reference : EE/BTP/BBMP/E-PMT/189/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-06-17

Sample ID No : 2017-06-30-02/02

Customer ID : Road Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Road Concrete	M20	25/06/2017	23/07/2017	151.36 X 153.13 X 151.85	23178	8.264	521.5	22.5	22.9
2	Road Concrete	M20	25/06/2017	23/07/2017	150.89 X 149.98 X 150.35	22630	8.281	522.8	23.1	
3	Road Concrete	M20	25/06/2017	23/07/2017	151.15 X 149.78 X 150.85	22639	8.197	525.2	23.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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****End of Report****

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